





INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

08 API- 2004

Applicant's or agent's file reference C1-A0220P	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)							
International application No.	International filing date (day/month/year) Priority date (day/month/year)							
PCT/JP2003/013063	10 October 2003 (10.10.2003) 11 October 2002 (11.10.2002)							
International Patent Classification (IPC) or national classification and IPC C07K 16/18, C12P 21/08, A61K 39/395, A61P 35/00, 37/02, 43/00								
Applicant CHUGAI SEIYAKU KABUSHIKI KAISHA								
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 								
This REPORT consists of a total of	4 sheets, including this cover sheet.							
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
These annexes consist of a to	These annexes consist of a total of sheets.							
 This report contains indications related 	ating to the following items:							
I Basis of the report								
n Priority								
III Non-establishment	of opinion with regard to novelty, inventive step and industrial applicability							
IV Lack of unity of in	vention							
v Reasoned statemen	nt under Article 35(2) with regard to novelty, inventive step or industrial applicability; nations supporting such statement							
VI Certain documents	cited .							
VII Certain defects in t	the international application							
VIII Certain observation	ns on the international application							
Date of submission of the demand	Date of completion of this report							
10 October 2003 (10.1								
Name and mailing address of the IPEA/JP	Authorized officer							
Facsimile No.	Telephone No.							





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International application No.

PCT/JP2003/013063

Basis of the report						
٧.	Vith r	egard to the elements of the international application:*				
	\leq	the international application as originally filed				
Ī	Í	the description:				
_	_	pages, as originally filed				
		pages, filed with the demand				
		pages, filed with the letter of				
Г	\neg	the claims:				
_	_	pages , as originally filed				
		pages, as amended (together with any statement under Article 19				
		pages , filed with the demand				
		pages, filed with the letter of				
r	\neg	the drawings:				
L	_	pages , as originally filed				
		pages , filed with the demand				
		pages, filed with the letter of				
F	٦.					
L	₩	he sequence listing part of the description:				
		pages, as originally filed pages, filed with the demand				
		pages , filed with the letter of, nied with the demand				
2.	With	regard to the language, all the elements marked above were available or furnished to this Authority in the language in which ternational application was filed, unless otherwise indicated under this item.				
-	These	e elements were available or furnished to this Authority in the following language which is:				
		the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).				
		the language of publication of the international application (under Rule 48.3(b)).				
		the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/				
		or 55.3).				
3.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international				
	prelii	minary examination was carried out on the basis of the sequence listing:				
	님	contained in the international application in written form.				
	쒸	filed together with the international application in computer readable form.				
	H	furnished subsequently to this Authority in written form.				
	뉘	furnished subsequently to this Authority in computer readable form.				
	ш	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
	X	The statement that the information recorded in computer readable form is identical to the written sequence listing has				
	2	been furnished.				
		The amendments have resulted in the cancellation of:				
4.	ш					
		the description, pages				
		the claims, Nos.				
		the drawings, sheets/fig				
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**				
	in th	ncement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to is report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 70.17).				
		replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.				

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Intern	application No.
PCT/JP	03/13063

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	v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
ı		citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	4-23	YES
	Claims .	1-3	NO
Inventive step (IS)	Claims	5-23	YES
	Claims	1-4	NO
Industrial applicability (IA)	Claims	1-23	— YES
	Claims		NO
	Statement Novelty (N) Inventive step (IS)	Statement Novelty (N) Claims Claims Inventive step (IS) Claims Claims Industrial applicability (IA) Claims	Novelty (N) Claims 4-23

2. Citations and explanations

Document 1: Blood, 1997, Vol. 90, No. 9, pp. 3629-3639

Document 2: J. Exp. Med., 1995, Vol. 181, No. 6, pp.

2007-2015

Document 3: Int. Immunol., 1998, Vol. 10, No. 9, pp.

1347-1358

Document 4: Mol. Immunol., 1999, Vol. 36, No. 6, pp.

387-395

Document 5: Biochem. Biophys. Res. Commun., 1999, Vol.

258, No. 3, pp. 583-591

Document 6: Blood, 1999, Vol. 93, No. 11, pp. 3922-3930

Claims 1 to 3

Claims 1 to 3 lack novelty and do not involve an inventive step in the light of documents 1 to 3 cited in the international search report.

Document 1 indicates monovalent Fab' fragments from an antibody against the $\alpha 1$ domain of HLA class IA molecules from humans. Therefore, the invention that is indicated in document 1 cannot be differentiated from the invention that is set forth in claims 1 to 3 of the present application.

Document 2 indicates Fab fragments from the antibody (RE2) against the α2 domain of HLA class IA molecules from mice. Therefore, the invention that is indicated in

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document 2 cannot be differentiated from the invention that is set forth in claims 1 to 3 of the present application.

Document 3 indicates monovalent Fab fragments from an antibody against the $\alpha 3$ domain of HLA class IA molecules. Therefore, the invention that is indicated in document 3 cannot be differentiated from the invention that is set forth in claims 1 to 3 of the present application.

Claims 1 to 4

Claims 1 to 4 do not involve an inventive step in the light of documents 4 to 6 cited in the international search report. Documents 4 to 6 indicate the production of humanized antibodies from anti-HM1.24 antibodies that are obtained by immunizing Balb/c mice using human myeloma cells.

The feature of degrading an antibody is well known in the technical field in question; therefore, it would be easy for a person skilled in the art to produce antibody fragments by degrading the anti-HM1.24 antibodies that are indicated in documents 4 to 6.